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H. [NL/NL]; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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(74) Agent: DUSSELDORP, Jan, C.; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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(71) Applicant (*for all designated States except US*): LU-MILEDS LIGHTING NETHERLANDS B.V. [NL/NL]; De Rijn 2, NL-5684 PJ Best (NL).

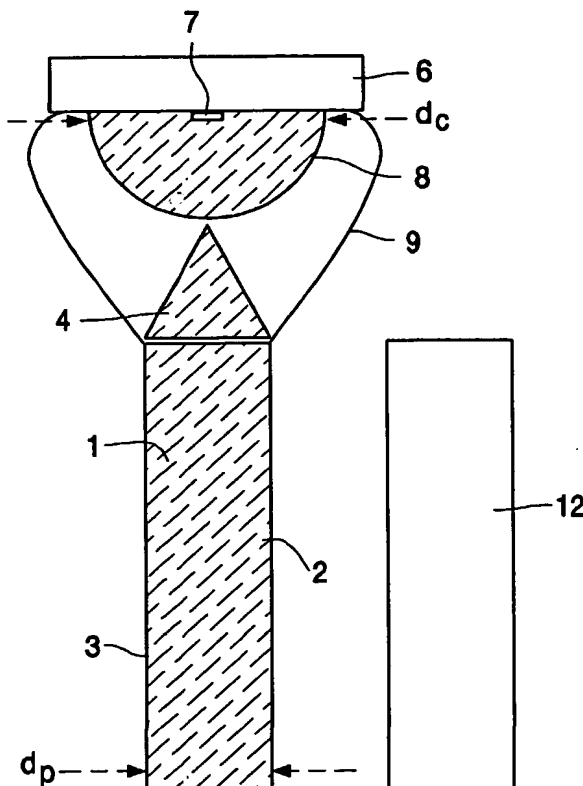
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(72) Inventor; and

(75) Inventor/Applicant (*for US only*): KEUPER, Matthijs,

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(54) Title: COMPACT LIGHTING SYSTEM AND DISPLAY DEVICE



(57) Abstract: A compact backlight system for illuminating a display device (12) has a front wall (2) and a rear wall (3) situated opposite thereto. At least one light source (6) comprising a light-emitting diode (7) is provided with a translucent lens-shaped cover (8). The system has at least one light input structure (4) for coupling light from the light source (6) into the light-emitting panel (1). During operation, light originating from the light source (6) is incident on the light input structure (4) and distributes itself in the light-emitting panel (1). According to the invention the light input structure (4) is conically or frustoconically shaped towards the light source (6). The thickness dp of the light-emitting panel (1) is smaller than the diameter dc of the translucent lens-shaped cover (8) of the light source (6). Preferably, the light input structure (4) is of prismatic or pyramidal shape.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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| A | EP 0 962 694 A (CITIZEN ELECTRONICS) 8 December 1999 (1999-12-08) abstract column 1, line 43 -column 1, line 58 figure 1 --- | 1-10 |
| A | US 5 590 945 A (SIMMS NORMAN) 7 January 1997 (1997-01-07) abstract column 5, line 11 -column 5, line 18 figure 8 --- | 1-10 |
| A | US 5 921 652 A (MILLER MARK D ET AL) 13 July 1999 (1999-07-13) abstract column 6, line 66 -column 7, line 17; figure 7 --- -/-- | 1-10 |

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bagge Af Berga, H

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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